

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L7    | 49   | (US-20030012230-\$ or<br>US-20030123827-\$ or<br>US-20020131047-\$ or<br>US-20040258107-\$ or<br>US-20050031258-\$ or<br>US-20050030611-\$ or<br>US-20020118417-\$ or<br>US-20040109235-\$ or<br>US-20030086176-\$ or<br>US-20030185513-\$ or<br>US-20030147136-\$ or<br>US-20030147578-\$ or<br>US-20040109635-\$ or<br>US-20010017959-\$ or<br>US-20030072009-\$ or<br>US-20030048985-\$).did. or<br>(US-6115401-\$ or US-6341040-\$<br>or US-5719989-\$ or US-6018421-\$<br>or US-6486988-\$ or US-6721100-\$<br>or US-6678093-\$ or US-6567196-\$<br>or US-6785002-\$ or US-6459844-\$<br>or US-6014485-\$ or US-5917626-\$<br>or US-5812306-\$ or US-6490381-\$<br>or US-5710655-\$ or US-6704469-\$<br>or US-6611378-\$ or US-6792210-\$<br>or US-6320996-\$ or US-6269202-\$<br>or US-3924931-\$ or US-4244045-\$<br>or US-4842357-\$ or US-6831784-\$<br>or US-6404948-\$ or<br>US-6658172-\$).did. or<br>(US-6175667-\$ or US-6219481-\$<br>or US-6229934-\$ or US-6281997-\$<br>or US-6295147-\$ or US-6125221-\$<br>or US-6215592-\$).did. | US-PGPUB;<br>USPAT  | OR               | ON      | 2006/07/10 14:49 |
| L8    | 9    | L7 and (index near2 match\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/10 14:49 |
| L9    | 16   | L7 and (quarter with wavelength)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/10 14:56 |

## EAST Search History

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| L10 | 32 | L7 and (spacing)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/07/10 15:04 |
| L11 | 4  | L7 and (aspheric)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/07/10 15:04 |
| S1  | 19 | ((("6813414") or ("6674968") or ("6373604") or ("6850364") or ("6704469") or ("6282025") or ("6850364") or ("6694066") or ("6658180") or ("6788852") or ("6882764") or ("6876805") or ("6671086") or ("6798568") or ("6845191") or ("6836581") or ("6684002") or ("6331913") or ("6859316") or ("6373631")).PN. | US-PGPUB;<br>USPAT  | OR | OFF | 2005/07/12 16:08 |
| S2  | 8  | S1 and (thin adj film)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/12 16:33 |
| S3  | 18 | ((("5937116") or ("6342960") or ("20040018019") or ("5812306") or ("5652814") or ("5754718") or ("6388783") or ("6256433") or ("6512615") or ("20030053747") or ("6275322") or ("20020118417") or ("20030123827") or ("6486988") or ("6735365") or ("5719989") or ("6018421") or ("6611378")).PN.               | US-PGPUB;<br>USPAT  | OR | OFF | 2005/07/13 09:23 |
| S4  | 7  | ((("20030169507") or ("6167171") or ("5812306") or ("5652814") or ("5754718") or ("6388783") or ("20040109235")).PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2005/07/13 09:29 |
| S5  | 13 | (S3 or S4) and (thin adj film)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/13 09:42 |

## EAST Search History

|    |     |   |   |    |    |                  |
|----|-----|---|---|----|----|------------------|
| S6 | 773 | ((fiber or fibre) same collimat\$4)<br>and ((thin adj film) same<br>substrate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 09:43 |
| S7 | 246 | ((fiber or fibre) same collimat\$4)<br>and ((thin adj film) same<br>substrate) and ((index or indices)<br>near2 refraction)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 09:44 |
| S8 | 17  | ((fiber or fibre) same collimat\$4)<br>and ((thin adj film) same substrate<br>same spacer) and ((index or<br>indices) near2 refraction) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 09:44 |

## EAST Search History

|                    |  |   |                              |    |    |                  |
|--------------------|--|---|------------------------------|----|----|------------------|
| S9                 | 266  | ("20020131176"   "3387531"  <br>"3551017"   "3697153"  <br>"3759604"   "3914023"  <br>"3929398"   "3944330"  <br>"4009453"   "4112361"  <br>"4197008"   "4229066"  <br>"4253728"   "4342502"  <br>"4394069"   "4415233"  <br>"4444469"   "4504950"  <br>"4531838"   "4582431"  <br>"4591231"   "4663557"  <br>"4666250"   "4702549"  <br>"4747666"   "4778251"  <br>"4793669"   "4813756"  <br>"4832448"   "4861136"  <br>"4896948"   "4904044"  <br>"4909631"   "4947223"  <br>"5002730"   "5027178"  <br>"5035485"   "5056887"  <br>"5062684"   "5071206"  <br>"5073004"   "5082629"  <br>"5103340"   "5132826"  <br>"5138222"   "5144471"  <br>"5144498"   "5144632"  <br>"5150236"   "5166755"  <br>"5179468"   "5181143"  <br>"5212584"   "5218473"  <br>"5233464"   "5241417"  <br>"5245474"   "5255332"  <br>"5274661"   "5280549"  <br>"5287214"   "5297155"  <br>"5303165"   "5331651"  <br>"5343542"   "5345328"  <br>"5355217"   "5392117"  <br>"5408555"   "5410431"  <br>"5416867"   "5425115"  <br>"5425964"   "5426532"  <br>"5479082"   "5491764"  <br>"5500763"   "5506731"  <br>"5532864"   "5557439"  <br>"5557442"   "5563733"  <br>"5583683"   "5606439"  <br>"5608743"   "5625492"  <br>"5631765"   "5633741"  <br>"5638473"   "5652675"  <br>"5719989"   "5760391"  <br>"5760910"   "5760934"  <br>"5781341"   "5784507"  <br>"5799121"   "5809190"  <br>"5835517"   "5850292"  <br>"5872655"   "5889592"  <br>"5889904"   "5900983"  <br>"5909303"   "5912762"  <br>"5923429"   "5923470"  <br>"5926317"   "5956441"  <br>"5991023"   "5991027"  <br>"5999267"   "5999322"  <br>"6002470"   "6011657" | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/07/13 10:25 |
| 7/10/06 3:46:16 PM | C:\Documents and Settings\jlewis\My Documents\ | EAST\Workspaces\10698561.wsp  |                              |    |    | Page 4           |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S10 | 19  | ((("6813414") or ("6674968") or ("6373604") or ("6850364") or ("6704469") or ("6282025") or ("6850364") or ("6694066") or ("6658180") or ("6788852") or ("6882764") or ("6876805") or ("6671086") or ("6798568") or ("6845191") or ("6836581") or ("6684002") or ("6331913") or ("6859316") or ("6373631")).PN. | US-PGPUB;<br>USPAT  | OR | OFF | 2005/07/13 10:25 |
| S11 | 18  | ((("5937116") or ("6342960") or ("20040018019") or ("5812306") or ("5652814") or ("5754718") or ("6388783") or ("6256433") or ("6512615") or ("20030053747") or ("6275322") or ("20020118417") or ("20030123827") or ("6486988") or ("6735365") or ("5719989") or ("6018421") or ("6611378")).PN.               | US-PGPUB;<br>USPAT  | OR | OFF | 2005/07/13 10:25 |
| S12 | 7   | ((("20030169507") or ("6167171") or ("5812306") or ("5652814") or ("5754718") or ("6388783") or ("20040109235")).PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2005/07/13 10:25 |
| S13 | 17  | ((fiber or fibre) same collimat\$4) and ((thin adj film) same substrate same spacer) and ((index or indicies) near2 refraction)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/13 10:25 |
| S14 | 260 | S9 not (S10 S11 S12 S13)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/13 11:28 |
| S15 | 246 | ((fiber or fibre) same collimat\$4) and ((thin adj film) same substrate) and ((index or indicies) near2 refraction)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/13 10:25 |
| S16 | 2   | S14 and S15   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/13 10:25 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S17 | 251 | (S15 S14) and ((fiber or fibre) same collimat\$4) and ((thin adj film) same substrate) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 10:46 |
| S18 | 253 | (S15 S14) not S17  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 10:46 |
| S19 | 0   | ("2004/0109635").URPN.   | USPAT   | OR | ON | 2005/07/13 10:56 |
| S20 | 0   | ("2004/0109235").URPN.   | USPAT   | OR | ON | 2005/07/13 10:56 |
| S21 | 0   | ("2005/0078909").URPN.   | USPAT   | OR | ON | 2005/07/13 11:02 |
| S22 | 0   | S15 not (S10 S11 S12 S13 S17)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 11:03 |
| S23 | 253 | S14 not (S10 S11 S12 S13 S17)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 11:03 |
| S24 | 253 | S18 not (S10 S11 S12 S13 S17)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 11:05 |
| S25 | 17  | S24 and (fiber or fibre) and collimat\$4 and (thin adj film)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 11:29 |

## EAST Search History

|     |     |   |                              |    |    |                  |
|-----|-----|---|------------------------------|----|----|------------------|
| S26 | 240 | ("20020003643"   "20020126291"<br>  "20020131176"   "3403260"  <br>"3551017"   "3614188"  <br>"3623797"   "3697153"  <br>"3697182"   "3703640"  <br>"3759604"   "3914023"  <br>"3949259"   "3953727"  <br>"4001577"   "4009453"  <br>"4229066"   "4253728"  <br>"4504950"   "4531838"  <br>"4548478"   "4582431"  <br>"4663557"   "4666250"  <br>"4747666"   "4778251"  <br>"4793669"   "4813756"  <br>"4832448"   "4909631"  <br>"4947223"   "4949005"  <br>"5023944"   "5027178"  <br>"5035485"   "5071206"  <br>"5111321"   "5138219"  <br>"5138222"   "5144498"  <br>"5144632"   "5179468"  <br>"5181143"   "5212584"  <br>"5212745"   "5233464"  <br>"5241417"   "5245474"  <br>"5266238"   "5274661"  <br>"5287214"   "5345328"  <br>"5355217"   "5397739"  <br>"5410431"   "5425115"  <br>"5425964"   "5426532"  <br>"5463494"   "5579420"  <br>"5583683"   "5606439"  <br>"5608743"   "5625492"  <br>"5631765"   "5666225"  <br>"5719989"   "5751466"  <br>"5777793"   "5781268"  <br>"5786915"   "5835517"  <br>"5859717"   "5859940"  <br>"5889592"   "5909303"  <br>"5917626"   "5923429"  <br>"5926317"   "5999267"  <br>"5999322"   "6011652"  <br>"6014485"   "6018421"  <br>"6028693"   "6034772"  <br>"6040932"   "6041071"  <br>"6046854"   "6061171"  <br>"6067391"   "6115180"  <br>"6115401"   "6117530"  <br>"6137575"   "6157490"  <br>"6208466"   "6432471"  <br>"6481369"   "6567430").PN. OR<br>("2003/0147136"   "4244045"  <br>"6115401"   "6215592"  <br>"6219481"   "6269202"  <br>"6490381"   "6611378"  <br>"6658172").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/07/13 11:28 |
|-----|-----|---|------------------------------|----|----|------------------|

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S27 | 221  | S26 not (S10 S11 S12 S13 S17 S25)                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 11:29 |
| S28 | 23   | S27 and (fiber or fibre) and collimat\$4 and (thin adj film)           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 11:29 |
| S29 | 0    | (interleaver same collimator same substrate same (thin adj film)).clm. | US-PGPUB  | OR | ON | 2005/07/13 14:20 |
| S30 | 2    | (collimator same substrate same (thin adj film)).clm.                  | US-PGPUB  | OR | ON | 2005/07/13 14:20 |
| S31 | 25   | ((thin adj film) same (film adj layer) same cavities).clm.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 15:18 |
| S32 | 132  | ((thin adj film) and (film adj layer) and cavities).clm.               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 15:19 |
| S33 | 107  | S32 not S31  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 15:25 |
| S34 | 1814 | ((("70" "71" "72" "73" "74") near2 (thin adj film))                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 15:27 |
| S35 | 240  | ((S34 "5" "6") near2 (cavities)) same (thin adj film)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 15:27 |



## EAST Search History

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S36 | 87    | ((("70" "71" "72" "73" "74") near2 (thin adj film))) and (optical adj (fiber or fibre))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 15:27 |
| S37 | 6     | ((S34 "5" "6") near2 (cavities)) same (thin adj film)) and (optical adj (fiber or fibre)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 15:34 |
| S38 | 18604 | (thin adj film) same (number with (layer or film or stacks))                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 16:10 |
| S39 | 6425  | (thin adj film) same (number with layer)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 16:08 |
| S40 | 3289  | (thin adj film) with (number with layer)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 16:08 |
| S41 | 944   | S38 and (optical with (fiber or fibre))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 16:08 |
| S42 | 380   | S41 and (interleaver or multiplex\$3 or demultiplex\$3)                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 16:10 |
| S43 | 496   | (thin adj film) same (number with (layer or film or stacks) with range)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/07/13 16:10 |

## EAST Search History

|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S44 | 19 | S43 and (interleaver or multiplex\$3 or demultiplex\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/13 16:10 |
| S45 | 0  | ("2004/0258107").URPN.   | USPAT   | OR | ON  | 2005/07/13 16:13 |
| S46 | 2  | ((("6421177") or ("6256433")).PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2006/01/18 13:35 |
| S47 | 49 | ("3304428"   "3529885"  <br>"3536921"   "4129357"  <br>"4327971"   "4500178"  <br>"4566761"   "4650289"  <br>"4678287"   "4685773"  <br>"4744075"   "4976517"  <br>"4987567"   "5111321"  <br>"5212586"   "5305136"  <br>"5488500"   "5606439"  <br>"5734762"   "5867291"  <br>"5912748"   "5978114"  <br>"6002503"   "6028702"  <br>"6038045"   "6130971"  <br>"6141467"   "6252711").PN. OR<br>("6256433"   "6421177").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/01/18 13:36 |